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# UTILITY PATENT APPLICATION **TRANSMITTAL**

First Inventor or Application Identifier Nabors, Forrest

Apparatus and Process Customer-Driven Sales of Products

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	PPLICATION ELEMENTS oter 600 concerning utility patent application	on contents.	Assistant Commissioner for Patents  ADDRESS TO: Box Patent Application  Washington, DC 20231				
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- Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure  3. X Drawing(s) (35 U.S.C. 113) [Total Sheets 11]  4. Oath or Declaration  a. Newly executed (original or copy)  b. Copy from a prior application (37 C.F.R. § 1.63(d)) (for continuation/tivisional with Box 17 completed) [Note Box 5 below]  i. DELETION OF INVENTOR(S) Signed statement attached deleting  8. Assignment Papers (cover sheet & document(s))  9. (When there is an assignee) Power of Attorney (when there is an assignee)  10. English Translation Document (if applicable) Information Disclosure Statement (IDS)/PTO-1449 Citations  11. Statement (IDS)/PTO-1449 Citations  12. Preliminary Amendment  13. X Return Receipt Postcard (MPEP 503) (Should be specifically itemized)  14. Statement filed in prior application, Status still proper and desired (PTO/SB/09-12)  15. Certified Copy of Priority Document(s)							
inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).  Incorporation By Reference (useable if Box 4b is checked)  The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered to be part of the disclosure of the accompanying application and is hereby incorporated by reference therein.  17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment:  Continuation Divisional Continuation-in-part (CIP)  Prior application information: Examiner  Group / Art Unit:							
	18. CC	ORRESPONDE	ENCE ADDRESS				
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Small Entity payments must be supported by a small entity statement, otherwise large entity fees must be paid. See Forms PTO/SB/09-12. See 37 C.F.R. §§ 1.27 and 1.28.

TOTAL AMOUNT OF PAYMENT **(\$)** 494

Complete if Known					
Application Number					
Filing Date	November 9, 1998				
First Named Inventor	Nabors, Forrest				
Examiner Name					
Group / Art Unit					
Attorney Docket No.	34533-51				

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1. BASIC FILING FEE	117 950 217 475	Extension for reply within third month			
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2. EXTRA CLAIM FEES		Utility issue fee (or reissue)			
Fee from Extra Claims below Fee Paid	143 450 243 225	Design issue fee			
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103 22 203 11 Claims in excess of 20		Filing a submission after final rejection			
102 82 202 41 Independent claims in excess of 3		(37 CFR 1.129(a))			
104 270 204 135 Multiple dependent claim, if not paid		For each additional invention to be examined (37 CFR 1.129(b))			
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# APPARATUS AND PROCESS FOR FACILITATING CUSTOMER-DRIVEN SALES OF PRODUCTS HAVING MULTIPLE CONFIGURATIONS

# FIELD OF THE INVENTION

The invention provides an apparatus and a process for facilitating customer-driven sales of products having multiple configurations over an electronic network, and more particularly a process for facilitating customer-driven sales of automobiles over the Internet.

# **BACKGROUND OF THE INVENTION**

The Internet has developed as an important vehicle for information exchange, as well as a forum for conducting, or at least facilitating, commerce. Systems using the Internet as a commercial forum fall broadly into two categories: seller-driven or customer-driven. The difference between customer and seller driven systems lies in which party takes the initiative to find the other. In a seller-driven system, the seller finds the customer; in a customer-driven system the customer finds the seller.

Most Internet commerce systems in use today are seller-driven and are either passive sites or active sites. A typical seller's Internet site is a passive advertising site that provides information about the product and directs potential customers to places they can obtain the product. Automobile manufacturers are a typical example: their sites provide information about the manufacturer's line of cars, available options, and locations of authorized dealers.

A smaller number of sellers have active selling sites that not only provide product information but allow potential customers to conduct a transaction over the Internet and purchase the product. The seller prices and packages the product and then holds it out for sale to potential customers via the Internet. The seller specifies, through their web site, the terms of the sale, and potential customers must either accept the seller's terms or find another seller whose terms are acceptable. Products sold on these sites are typically lower-priced standardized goods such as books, compact disks, and videos.

In a customer-driven system, the customer specifies the product they want and the terms under which they will buy it, and then sends this specification to sellers. Some attempts have been made to implement customer-driven systems on the Internet. Examples are news groups and bulletin boards where any potential customer can post "wanted" ads at little or no cost.

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Customer driven systems have certain benefits that other systems do not. Where a large number of potential sellers exist, but those sellers do not have the resources to advertise globally, it makes sense for customers, if they can, to take the initiative in communicating their needs to a seller. The Internet is ideal in this situation because Internet postings are global, and the customer theoretically can communicate his offer to a large number of potential sellers. Moreover, customers can usually exercise more control over the terms and conditions of their purchases.

Despite their advantages, existing customer-driven systems have some drawbacks. Sellers are deterred from using customer-driven systems because sellers do not want to be inundated with numerous requests from potential customers, many of whom may be marginal or unqualified. Moreover, if each customer has a different set of purchasing specifications and communicates his or her needs to sellers using a non-standard format with different conditions, terms, and language styles, the specification may require too much time for the seller to interpret. Furthermore, sellers are deterred from using customer-driven systems because there is no guarantee of the authenticity of the request, and the financial ability of the customer to enter into the transaction is uncertain. In addition, newsgroups scattered across the Internet make it difficult, if not impossible, for sellers to find customer requests. In practice, these customer-driven systems are ineffective because potential sellers do not frequent all the various newsgroups or bulletin boards or respond to posting in those places. Customers are deterred from using customer-driven systems for many of the same reasons sellers are deterred. For example, a potential seller does not want to be inundated with offers from many marginal or unqualified customers.

The problems inherent in existing customer-driven systems are compounded where the product being sold is available in multiple configurations, for example motor vehicles such as an automobile or a truck. These products cause problems because for any given product there are thousands of possible option configurations, and not all combinations of options are feasible. For example, automobile manufacturers usually do not make vehicles having every possible combination of options, but rather make the most popular ones. Thus, for example, if a potential customer wants a purple Ford truck with a yellow interior and a V-12 engine, that engine and combination of colors may not be available from the manufacturer (Ford). The customer, however, has no way of knowing this before sending the request to potential sellers.

Attempts have been made to implement customer-driven systems that address some of the above problems. U.S. Patent No. 5,794,207 to Walker et. al. ("Walker") is illustrative. Walker

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does not, however, solve all the foregoing problems. Among other things, Walker does not direct the customer's request to a target set of sellers who are likely, if not certain, to have the desired product. Instead, Walker merely places the customer's request where it can be accessed by interested sellers. Walker, although it provides for guaranteeing payment by the customer, does not guarantee that the sellers will be credible and able to deliver. Walker does not provide means for checking whether a complex product the customer wants is feasible, that is, whether it exists or can be manufactured. Finally, Walker provides a system where the customer must send a binding purchase offer which can be accepted by any seller, thereby binding the customer to a contract. This opens up the possibility that the offer could be accepted by an unscrupulous seller. There is thus a need in the art for an apparatus and method that solves the above problems.

# **SUMMARY OF THE INVENTION**

The present invention comprises an apparatus and process for facilitating customer-driven sales of products having multiple configurations. The apparatus of the present invention comprises a computer network apparatus to facilitate the purchase of a product having multiple configurations, the product being sold by manufacturer-licensed sellers and each product configuration being described by a set of product attributes. The computer network apparatus comprises a server, an intermediary subsystem, and a seller subsystem.

The server comprises a processor with a storage device connected to the processor. The storage device has stored thereon a product database, the product database including information regarding existing combinations of product attributes; a seller database stored on the storage device, the seller database including seller information such as geographic location; and a program stored on the storage device for controlling the processor. The program is operative with the processor to receive a customer's selected set of product attributes, query the product database using the customer's desired set of product attributes to confirm the feasibility of the customer's selected configuration, query the seller database using a set of seller attributes to select a target set of sellers in the customer's geographic area, transmit a request for quote (RFQ) to the target set of sellers, the RFQ including the customer's desired set of product attributes, receive a quote from at least one seller from the target set of sellers, receive an acceptance of one of the quotes, and transmit the acceptance to the seller whose quote was accepted.

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The intermediary subsystem is connected to the server, and comprises a computer operative with a program stored thereon to receive from an intermediary input of a customer's selected set of product attributes, transmit to the server the customer's selected set of product attributes, receive from the server a quote from a seller, receive from the intermediary input of an acceptance of a quote, and transmit to the server an acceptance of one of the quotes.

The seller subsystem is connected to the server, and comprises a computer operative with a program stored thereon to receive from the server an RFQ, receive from a seller input of a quote in response to the RFQ, and transmit the quote to the server.

The process uses a computer network to facilitate the purchase of a product having multiple configurations, the product being sold by manufacturer-licensed sellers and each product configuration being described by a set of product attributes. The process includes configuring a customer's desired product by selecting the customer's desired set of product attributes; selecting a target set of sellers in the customer's geographical area, the target set comprising at least one seller; and transmitting a request for quote (RFQ) to the target set of sellers, the RFQ including the customer's desired set of product attributes and the RFQ being transmitted to a seller subsystem using the computer network. When sellers receive an RFQ, at least one seller from the target set of sellers responds to the RFQ with a quote, the quote being input through a seller subsystem and transmitted using the computer network. The quotes received are transmitted to the customer. The customer selects for acceptance a quote that matches their desired attributes and transmits their acceptance to the seller.

#### BRIEF DESCRIPTION OF THE DRAWINGS

- Figure 1 illustrates the apparatus and process of a first embodiment of the invention.
- Figure 2 illustrates details of a server used in the first embodiment of the apparatus and process.
- Figure 3 illustrates details of an intermediary subsystem or a seller subsystem usable with the first embodiment of the apparatus and process.
- Figure 4 is a flowchart illustrating an intermediary's portion of the process of the first embodiment.
- Figure 5 is a flowchart illustrating the portion of the process of the first embodiment carried out by a target seller.

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Figure 6 is a flowchart illustrating the portion of the process used by the intermediary to reply to a quote received from a seller, the seller having responded using the process of Figure 5.

Figure 7 illustrates the apparatus and process of a second embodiment of the invention.

Figure 8 is a flowchart illustrating the portion of the process of the second embodiment that is carried out by a customer.

Figure 9 illustrates the apparatus of an intermediary subsystem which, when combined with the apparatus and process shown in Figures 1 or 7, forms a third embodiment apparatus and method.

Figure 10 is a flowchart illustrating the process used by an intermediary in a third embodiment of the invention.

Figure 11 is a flowchart illustrating the process used by a seller in a fourth embodiment of the invention.

# DETAILED DESCRIPTION OF THE INVENTION

Described below are several embodiments of the present invention. The embodiments illustrate several ways in which the present invention may be implemented. Although the embodiments are described in the context of automobile purchases, they could easily be used for other products with multiple configurations and manufacturer-authorized sellers, as well. In the description that follows, like numerals represent like elements or steps in all figures. For example, if the numeral 10 is used in one figure to refer to a specific element or step, the numeral 10 appearing in any other figure refers to the same element.

# First Embodiment

Figures 1 through 3 together illustrate a first embodiment of the inventive apparatus and process. The apparatus and process of the first embodiment are used to facilitate the purchase of a product having multiple possible configurations, such as an automobile, and are intended to be used by an intermediary and one or more sellers to facilitate a product purchase on behalf of a customer. An intermediary is a professional customer, such as a bank, credit union, auto broker or other automobile-buying professional, and in some cases the intermediary and the customer may be the same entity, for example when the intermediary is a corporate fleet auto customer buying automobiles on behalf of a corporation. The involvement of an intermediary, such as a bank or credit union, provides assurance to both customers and to sellers that the other party to the

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transaction is "credible", that is, able to complete the transaction. The inventive process is customer-driven, meaning that the customer initiates a transaction over a network and controls the transaction throughout the process of the transaction. The inventive process allows an intermediary to send a request for quote (RFQ) to multiple sellers, and allows multiple sellers to submit quotes in response to the RFQ. Using this quoteding process the customer is assured of getting the specified goods at a competitive price. Figure 1 illustrates the transaction process.

As shown in Figure 1, the apparatus is a computer network comprising a server 22; at least one intermediary subsystem 24 connected to the server via an intermediary network connecting means (e.g., intermediary modem 26); and at least one seller subsystem 28 connected to the server via a seller network connecting means (e.g., seller modem 30). Although referred to as modems, the intermediary modem 26 and seller modem 30 could be any other communication means that enables network communication, for example, ethernet links. The intermediary modem 26 and seller modems 30 can be connected to the server by a variety of connecting means, including public telephone land lines, dedicated data lines, cellular links, microwave links, or satellite communication.

Figure 2 illustrates details of the server 22. The server 22 is essentially a high-capacity, high-speed computer that includes a processing unit 32 connected to four databases: a product database 34, a seller database 36, a customer database 38, and a request-for-quote (RFQ) database 40. Additional databases are optionally added to the server, for example databases to track market research information for later sale to manufacturers, such as customer demographics, marketing information, etc. Also connected to the processing unit 32 is sufficient memory (shown as part of the processing unit, but the memory could be a separate component) and appropriate intermediary communication hardware 42 and seller communication hardware 44. Like the intermediary modem 26 and the seller modem 28, the intermediary communication hardware 42 and seller communication hardware 44 may be modems, ethernet connections, or any other suitable communication hardware. In addition, although shown as separate units the intermediary communication hardware 42, the seller communication hardware 44 may be a single unit. Although the server 22 has been shown as a single computer having a single processing unit 32, it is also possible that the server could be spread over several networked computers, each having its processor and having one or more databases resident thereon.

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In addition to the elements described above, the server 22 further comprises an operating system and communication software allowing the server to communicate with other computers. The preferred operating system is Microsoft Windows NT, while the preferred communication software is a Microsoft IIS (Internet Information Server) server with associated programs.

The databases on the server 22 contain the information necessary to make the apparatus and process work. The product database 34 contains a variety of information about the product, including product attributes, available combinations of product attributes, and product pricing. The seller database 36 contains information about authorized sellers of the product, including their name, address, relevant geographical areas served, and manufacturer-authorized product lines. The customer database 38 includes a variety of information about the customers, including names, addresses, and product preferences. The customer database is structured so that it maintains a customer list for each intermediary that uses the apparatus and process. Finally, the request-for-quote database 40 stores information about RFQ's sent by the server 22, if any, including the status (*i.e.*, whether the RFQ is pending, abandoned, expired, whether a quote has been received for the RFQ, etc.). The databases are assembled and accessed using any commercially available database software, such as Microsoft Access, Oracle, etc. Microsoft SQL Version 6.5 is the preferred database for this application.

Figure 3 illustrates details of the intermediary subsystem 26 and seller subsystem 28. Both subsystems 26 and 28 generally include a processor 46 attached to storage unit 48, a communication controller 50, and a display controller 52. The display controller runs a display unit through which the intermediary and seller interact with the subsystems 26 or 28. In essence, the subsystems 26 and 28 are computers able to run software providing a means for communicating with the server 22. This software, for example, is an Internet web browser such as Microsoft Internet Explorer, Netscape Navigator, or other suitable internet web browsers.

In addition to showing the apparatus of the first embodiment, Figure 1 outlines the basic steps and information transfer of the process. The details of the process are further discussed below in connection with Figures 4, 5 and 6. Having put together a request for quote (RFQ) configuring the automobile the customer wants, at step 56 the intermediary transmits the RFQ from the intermediary subsystem 24 through the modem 26 to the server 22. At step 58, the RFQ is transmitted from the server 22 to a target set of seller modems 30 and corresponding seller subsystems 28. The target set of sellers is chosen by the intermediary according to the criteria of

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geographic region and authorized dealers using the seller database. If one or more sellers within the target set of sellers decide they wish to submit a quote responsive to the RFQ, then at step 60 each sellers transmits a "quote" from the seller subsystem 28 to the server 22. At step 62, the quotes are transmitted from the server 22 to the intermediary subsystem 24. The intermediary communicates the quotes to the customer (this step not shown). If the customer decides to accept one of the quotes, the customer notifies the intermediary and at step 64 the intermediary transmits an "acceptance response" to the server 22, wherein the acceptance response contains information about the customer from the customer database and identifies a "selected seller." At step 66, the acceptance response is transmitted from the server 22 to the selected seller's subsystem.

While Figure 1 illustrates the outline and information flow of the overall process, Figures 4, 5 and 6, illustrate details of the process steps of the first embodiment. Figure 4 illustrates the first part of the process, which is carried out by the intermediary. Optionally, a first intermediary may also transmit the request to a second intermediary at step 85 to act on behalf of the first intermediary. The process begins when a customer seeking to purchase appropriate goods (*i.e.*, an automobile) contacts the intermediary. At step 68, the intermediary collects personal information from the customer such as their name, address, and financing information (i.e., ability to purchase up to a certain maximum price) and optionally collects demographic information concerning reasons for selecting a particular automobile and other demographic information helpful for market research studies (*e.g.*, age, household income, education, occupation, hobbies/interests, and the like).

Once the customer's personal and demographic information has been gathered, the intermediary gathers information regarding the customer's desired product attributes (i.e., the configuration the customer wants). At step 70 the customer describes to the intermediary the general automobile (GA) they want and optionally also describes the exact automobile (EA) they want. For example, a customer may want a Ford Taurus; this would be the GA. The customer may also want the GA to have an additional set of attributes, for example a 1999 Ford Taurus, white in color, automatic transmission, sun roof, CD changer, black leather interior, and alloy wheels; this would be the EA.

When the customer's GA and EA information has been gathered, the intermediary obtains information from the customer at step 72 regarding their flexibility on the desired attribute set of the EA. Flexibility is determined by assigning a rank between 1 and 5 to each attribute, 5 being

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high priority and 1 being low priority. Thus, if the customer does not particularly care whether the transmission is manual or automatic, a low rank is assigned to that attribute. If, however, the customer absolutely must have the black leather interior, that attribute is assigned a high rank.

Step 74 is the last information gathering step for the intermediary. In this step, the intermediary gathers any additional constraints the customer may want to put on the GA or EA they want. Additional constraints may include such items as the customer's desired price range or a date by which the customer must purchase the car.

Having gathered necessary information from the customer, the intermediary establishes a connection between the intermediary subsystem 24 and the server 22 and begins using the inventive process. At step 76, the intermediary checks whether the apparatus and process have previously been used to buy a product for this specific customer. If the apparatus and process have not previously been used on behalf of this customer, the intermediary goes to step 78, where the customer's personal and demographic information is entered into the intermediary subsystem 24 and transmitted to the customer database 38. If the apparatus and process have previously been used on this customer's behalf, the intermediary proceeds to step 80, where the customer information is looked up in the customer database 38. Whether or not the customer has used the process before, the intermediary may optionally perform step 82, where any additional information about the customer may be entered into the intermediary subsystem 24, transmitted to the server 22 and, at step 84, written to the intermediary's customer list on the customer database 38.

The intermediary next configures the customer's EA and GA using the product database 34. At step 86, the intermediary enters the customer's EA, GA and flexibility information into the intermediary subsystem 24, transmits this information to the server 22, and uses the information to query the product database at step 88. Having done the product database lookup, the intermediary reviews the results at step 90 to confirm whether the configuration is feasible. A configuration is feasible if, among other things, it exists or can be ordered from a manufacturer, and its price fits within the customer's price range. Thus, the customer may want a purple Ford Taurus 1999 with a neon chartreuse interior for \$10,000. If the configuration is not feasible, the intermediary returns to steps 86 and 88 and tries to come up with some feasible configurations that fit within the customer's EA flexibility.

Once the intermediary finds a feasible configuration, the next step is to put together an RFQ in steps 92 and 94. The RFQ consists primarily of the attribute set of the feasible

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configuration found at step 90. At step 92 the customer's flexibility information (i.e. attribute rankings) is added to the RFQ. Any additional customer constraints, such as an expiration date for the purchase and standard or custom terms of sale, are added to the RFQ at step 94.

When the RFO has been assembled, the intermediary proceeds to step 96 and selects a target set of sellers to which the RFQ will be sent. There are two methods for the intermediary to select the target list of sellers. In the first method, the intermediary proceeds from step 96 and queries the seller database 36 at step 98 based on selected criteria, for example geographic region The seller database 36 contains information about and authorizations by manufacturers. automobile sellers nationwide, including what product lines they carry and where they are located. The query result will usually be a list of sellers and brokers that are authorized by the relevant manufacturer (Ford in the example) to sell the specified product line, and that are located in the same geographical region as the customer. Thus, if our Ford Taurus customer lives in Tightwad, Missouri, the seller database query finds Ford sellers or brokers in a defined geographic region of Tightwad, Missouri. Sellers and brokers outside the customer's geographic region could also be found, and may be desirable if, for example, the sellers outside the region are sufficiently price competitive. At step 100, the intermediary can filter the list of sellers based on further seller criteria to obtain a target set of sellers. If, for example, the intermediary has had bad experiences with a particular seller or the particular seller has been unresponsive to previous RFQ's, that seller or broker can be removed from the potential target set of sellers.

The second method by which the intermediary selects the target set of sellers is shown at step 102. At step 102 the intermediary accesses their "preferred seller list" and selects the target set of sellers from this list. The intermediary will have used steps 98 and 100 described above to compile their preferred seller list before even starting the process of Figure 4, and will have saved the result of steps 98 and 100 on the seller database for future use. The intermediary can always update their preferred seller list.

Having assembled the RFQ and selected the target set of sellers, the intermediary proceeds to step 104, where the RFQ is transmitted to the server 22 (Figure 1). At step 106, the RFQ is assigned an identification number for tracking, and at steps 108 and 110 the RFQ is written to the RFQ database and the transaction is logged. The RFQ database stores information for each RFQ processed by the apparatus, including the contents of the RFQ, the sellers to which it was sent, its expiration date (if any) and its status (i.e. expired, pending, responded to). At step 112, the RFQ is

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transmitted from the server 22 to the target set of sellers (see step 56 in Figure 1). At step 114, which is optional, the target set of sellers may be notified that an RFQ has been sent to them.

Figure 5 shows a target sellers' side of the process once they receive an RFQ. A target seller is a seller included in the target set of sellers. At step 114, the RFQ is received by a target seller. At step 116, the target seller checks the product specified in the RFQ against the products in inventory. At step 118, the seller assesses whether there is a product in inventory that matches the EA specified in the RFQ.

If the target seller has the EA in inventory at step 120, the target seller will put together a quote indicating that they have the EA in inventory and also indicating an asking price for the EA. A target seller is not obligated to submit a quote in response to an RFQ; the seller may choose whether to quote based upon their own economic decision making criteria. A quote can optionally be a legal offer which, if accepted by the customer, will bind both the customer and the seller to a legally enforceable contract.

If the EA is not in inventory, the target seller proceeds to step 122 and submits a quote for a product that the customer might find acceptable based on the customer's GA and EA and their attribute flexibility. For example, in the above case where the customer wanted an automatic transmission in the Ford Taurus, the seller may have a Taurus that has most or all of the other features, but has a manual transmission. If the customer has assigned a low rank to the choice of transmission, then the seller can submit a quote specifying the Taurus with a manual transmission and the seller's asking price for that vehicle. Alternatively, if the EA is not in target seller's inventory the target seller can respond at step 122 with an EA that can be ordered from the manufacturer.

The next step is for the target seller to assemble a quote for transmission. At step 124, the seller enters into the seller subsystem 28 the attribute information for the EA, or the GA varying from the EA within the customer's attribute flexibility. Also entered into the seller subsystem 28 are the seller's asking price for the vehicle they are responding with and any additional constraints they wish to place on the transaction. Additional constraints include an expiration time for the quote, and optionally include delivery constraints, payment constraints, or any other contingencies. At step 126, the seller verifies the seller information that will accompany the RFQ; the seller information includes such items as the seller's name, address, etc. If any of the seller information is incorrect, the seller can correct it at this step and the seller database will be updated.

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If there are any changes to the seller information, the new seller information is transmitted to the server 22 and stored in the seller database 36. The seller information is also transmitted with the quote. At step 128, the seller verifies the quote information that is being submitted and proceeds to step 130, where the quote is transmitted to the server 22. Once transmitted to the server 22, the quote is assigned a number for tracking purposes at step 132, the RFQ database is updated to reflect that a quote has been sent in response to the RFQ at step 134, and the transaction is logged at step 136. The seller's quote is transmitted from the server to the intermediary subsystem 24 at step 138.

Figure 6 shows the intermediary's part of the process once the quote has been transmitted to the intermediary subsystem 24 from the server 22. When the intermediary receives the seller's quotes at step 140, the intermediary proceeds to step 142 where the quotes are transmitted to the customer by the intermediary using suitable means, such as a telephone, e-mail, or fax machine. The customer assesses the adequacy of each quote at step 144. If the customer does not accept a quote, then the intermediary enters the rejection of the quote into the intermediary subsystem 24 and transmits the rejection to the server 22. At step 145, the server 22 notifies the appropriate seller that the quote was rejected, and at step146 the quote is tagged as expired and placed in an archive.

If the customer accepts a quote, the customer transmits an acceptance of the quote to the intermediary at step 148. The intermediary proceeds to step 150, where the intermediary enters the acceptance information (delivery instructions, payment methods, etc.) into the intermediary subsystem 24. At step 152, the intermediary subsystem transmits the customer's acceptance information to server 22. The server executes step 154, where a standardized acceptance is generated, and proceeds to steps 156 and 158 where the RFQ database is updated to reflect the acceptance. At step 159, the server transmits the standardized acceptance to the seller subsystem of the appropriate target seller whose quote was accepted by the customer.

# Second Embodiment

Figure 7 illustrates a second embodiment of the inventive apparatus. The apparatus of the second embodiment is similar to the apparatus of the first embodiment, except that the second embodiment includes a customer subsystem 160 connected to the server 22 via a customer modem 162. The customer subsystem is as shown in Figure 3. The principal difference between the apparatus of the first and second embodiments is that, in the second embodiment, the customer

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uses the customer subsystem 160 and customer modem 162 to interact with the server 22. The customer thus uses the product database 34 to configure their own vehicle, instead of simply providing the information to an intermediary and allowing the intermediary to configure a vehicle.

The additional process steps in the second embodiment are outlined in Figure 7. At step 164, the customer has configured their vehicle using the product database 34 and transmits the final product and customer information to the server 22. The server transmits the customer's information to the intermediary at step 166, so that the intermediary can review the information, formulate an RFQ using the product and customer information, and transmit the RFQ to the appropriate target set of sellers. The advantage of retaining the intermediary in the process is that the intermediary has more expertise in using the apparatus and process and in dealing with sellers. The intermediary may thus be able to alert the customer to possibilities he hasn't considered. For example, if the customer configures a 1998 Ford Taurus and wants to pay less than \$10,000, but the intermediary, by querying the product database 34 using the customer's product information, knows that there are many 1997 Ford Taurus cars available at deep discounts, the intermediary can notify the customer that a bargain may be possible.

The detailed process used in the second embodiment is similar to the process described Figures 4 through 6, except that steps 68 through 94 in Figure 4 are replaced by the process shown in Figure 8. The principal difference between the processes of the first and second embodiments relates to how the customer's information is entered into the apparatus and processed. In the first embodiment, the customer gives their demographic and product information to the intermediary, who then uses the intermediary subsystem 24, server 22 and its associated product database 34 to configure a feasible vehicle for the customer. In the second embodiment, the customer configures their own feasible vehicle first, and then sends that product information and their demographic information to the intermediary to finish the remainder of the process.

Figure 8 illustrates the process of the second embodiment. The customer establishes a connection between the customer subsystem and the server at step 166. The customer usually accesses the server indirectly by, for example, clicking on a link to the server in an intermediary's web site. The customer inputs their personal and demographic information at step 178, their EA/GA information at steps 180 through 184. Any additional customer information is entered at step 174. The personal and demographic information and additional information are written to the

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intermediary's list of customer data in the customer database 34 at step 176. The customer then configures their product at step 186 and queries the database at step 188.

At step 190, the customer reviews the query results and assesses the feasibility of the configuration. If the configuration is not feasible, the customer returns to step 186 where the customer configures another product, again queries the product database 34 at step 188, and reviews the query results at step 190 to see if the configuration is feasible. Once a feasible configuration is found at step 190, the customer transmits the information to the server 22, which then transmits the information to the intermediary at step 192 and notifies the intermediary of the transmission at step 194. The intermediary reviews the customer's request at step 196 and continues with the remainder of the process shown in Figures 4 through 6, starting at step 96 in Figure 4.

# Third Embodiment

A third embodiment of the apparatus uses the apparatus of Figure 1, except that the intermediary subsystem 24 is as shown in Figure 9. As shown in Figure 9, the intermediary subsystem comprises a processor with memory 46, a communication controller 50, an interface controller 52, and a user interface 54, all three of which are connected to the processor. A storage device 48 is also connected to the processor, and the storage device 48 contains a second product database 198. The intermediary subsystem also includes software that allows the subsystem to communicate with the server. One example of suitable communication software is a web browser such as Microsoft Internet Explorer Version 4.0 with associated plug-ins. The plug-ins enable interaction with the second product database 198 from within the web browser.

The principal difference between the apparatus of the third and first embodiments is the location of the product database. In the first embodiment, the product database 34 resides on the server 22 only. In the third embodiment, a second product database 198 resides on the intermediary's subsystem. The second product database 198 is in addition to product database 34 located on the server 22. This apparatus configuration allows the intermediary to accomplish the configuration steps of the process without communicating with the server 22.

The process for using the third embodiment is similar to that shown in Figures 4 through 6, except that steps 68 through 94 in Figure 4 are replaced with the process shown in Figure 10. Steps 202 to 214 in Figure 10 are executed on the intermediary subsystem without communicating with the server. The intermediary inputs the customer's personal and demographic information at

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step 202, and the customer's EA/GA information, attribute flexibility information, and additional constraints at steps 204 through 208. The intermediary configures the customer's product configuration at step 210, queries the database at step 212, and reviews the query results at step 214 to assess whether the configuration is feasible. If the product configuration is not feasible, the intermediary returns to step 210 where the intermediary configures another configuration within the customer's attribute flexibility. The intermediary queries the database again at step 212, and reviews the query results at step 214 to see if the configuration is feasible.

Once the configuration is found to be feasible at step 214, the intermediary establishes a communications link with the server at step 216. At step 218, the intermediary determines whether the apparatus and process have previously been used on behalf of this particular customer. If the apparatus and process have not previously been used for this customer, the intermediary at step 220 transmits the customer's personal and demographic information from the intermediary subsystem to the customer database 38 on server 22. Any additional customer information is entered into the intermediary subsystem at step 222 and transmitted to the intermediary's customer list on the customer database at step 225. If the apparatus and process have previously been used on this customer's behalf, the intermediary queries the customer database at step 224 to obtain the customer's demographic information and enters any additional customer information at step 222. The customer information and additional information are written to the intermediary's list of customer information on the customer database at step 225. At step 226, the intermediary transmits the customer information to the server 22. The intermediary then continues with the remainder of the process shown in Figures 4 through 6, starting at step 96 in Figure 4.

# Fourth Embodiment

A fourth embodiment of the apparatus utilizes the apparatus of either the first, second or third embodiments. The primary difference between the process of fourth embodiment and the processes of the other embodiments is the process followed by the target sellers when they do not have the customer's EA in inventory.

The process used in the fourth embodiment is similar to that shown in Figure 4 through 6, except that the seller's process shown in Figure 5 is replaced by the process shown in Figure 11. In Figure 11, a seller receives the RFQ at step 228, and at step 230 checks to see if a product having the EA attributes specified in the RFQ is in inventory. If the target seller has the EA in inventory, they respond to the RFQ with the EA at step 232. If they do not have the EA in

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inventory, the target seller, using the attribute flexibility information in the RFQ, proceeds to step 234. At step 34 the target seller queries the product database 34 to see if they can come up with a feasible configuration which they can submit in response to the RFQ. At step 236, the seller reviews the query results and assesses the feasibility of the configuration. If the configuration is feasible, the seller proceeds to step 238 and responds to the RFQ with this alternative GA configuration.

At steps 240 to 244, the target seller assembles the quote. At step 240, the target seller enters into the seller subsystem the information for the EA or GA, along with the asking price for the vehicle they are responding with and any additional constraints they wish to place on the transaction. Additional constraints include an expiration time for the quote, and optionally include delivery constraints, payment constraints, or any other contingencies. At step 242, the seller verifies the seller information accompanying the RFQ. The seller information is stored in the seller database and is transmitted with the RFQ. If any of the seller information is incorrect, the seller can correct it at this step and the seller database will be updated. At step 244, the seller verifies the quote information that is being submitted and proceeds to step 246, where the seller's quote is transmitted to the server. Once transmitted to the server, the quote is assigned a number for tracking purposes at step 248, and the RFQ database is updated to reflect that a quote responsive to the RFQ has been sent at step 250. The target seller's quote is transmitted then from the server to the intermediary subsystem at step 254.

# Fifth Embodiment

In a fifth embodiment (not shown) of the apparatus and process, the apparatus is the same as the apparatus of the first, second, third or fourth embodiments. The process of the fifth embodiment is identical to the process of the first, second, third or fourth embodiments. The difference between the process of the fifth embodiment and the process of other embodiments is that all the process steps previously performed by the intermediary are now performed by the customer. In other words, the customer uses the apparatus and method to submit RFQ's directly to the target set of sellers, and the target sellers use the apparatus and method to submit quotes in response to the RFQ directly to the customer.

Five embodiments of the present invention have been described. A person skilled in the art, however, will recognize that many other embodiments are possible, including combinations of

the embodiments presented. For this reason, the scope of the invention is not to be determined from the description of the embodiments, but must instead be determined solely from the claims that follow.

#### **CLAIMS**

1. A process using a computer network to facilitate the purchase of a product having multiple configurations, the product being sold by manufacturer-licensed sellers and each product configuration being described by a set of product attributes, comprising:

configuring a customer's desired product by selecting the customer's desired set of product attributes;

selecting a target set of sellers in the customer's geographical area, the target set comprising at least one seller;

transmitting a request for quote (RFQ) to the target set of sellers, the RFQ including the customer's desired set of product attributes and the RFQ being transmitted using the computer network to a seller subsystem;

responding to the RFQ with a quote from at least one seller from the target set of sellers, the quote being input through the seller subsystem and transmitted using the computer network;

transmitting the quotes to the customer;

selecting for acceptance a price quote that matches the customer's attributes; and transmitting the customer's acceptance to the seller.

- 2. The process of claim 1 wherein configuring a customer's desired product comprises: transmitting the customer's desired set of product attributes to an intermediary;
  - inputting the customer's product attributes into an intermediary subsystem; and
  - querying an electronic database of existing product configurations, using the customer's desired set of product attributes, to assess the feasibility of the customer's selected configuration.
- 3. The process of claim 2 further comprising transmitting the customer's desired set of product attributes to a second intermediary.
- 4. The process of claim 1 wherein configuring a customer's desired product comprises:

inputting the customer's product attributes into a computer through a customer subsystem;

querying an electronic database of existing product configurations, using the customer's desired set of product attributes, to assess the feasibility of the customer's selected configuration; and

transmitting the customer's attribute set to an intermediary.

- 5. The process of claim 4 further comprising transmitting the customer's desired set of attributes to a second intermediary.
- 6. The process of claim 1 wherein at least one attribute in the set of product attributes is ranked by the customer on a scale which indicates their degree of flexibility about that attribute.
- 7. The process of claim 1 wherein responding to the RFQ with a quote comprises:

querying an electronic database of existing product configurations, using the customer's desired set of product attributes, to assess the feasibility of an alternate product configuration; and

assembling a quote based upon the alternate product configuration.

- 8. The process of claim 1 wherein transmitting the RFQ to a target set of dealers comprises: transmitting the RFQ from an intermediary to a server; and transmitting the RFQ from the server to the target set of sellers.
- 9. The process of claim 1 wherein responding to the RFQ comprises:
  transmitting a quote from at least one seller from the target set of sellers to a server;
  and

transmitting the quote from the server to an intermediary.

- 10. The process of claim 1 where the quotes are transmitted by the intermediary to the customer using a telephone, electronic mail or fax.
- 11. The process of claim 1 wherein selecting a target set of sellers comprises:

  querying a database of product sellers based on a set of seller criteria; and selecting the target set of product sellers from the query results.
- 12. The process of claim 11 further comprising storing a list of the target set of sellers on the seller database as a preferred seller list.
- 13. The process of claim 6 wherein selecting a target set of sellers further comprises filtering the query result based on additional seller criteria.
- 14. The process of claim 1 wherein transmitting the price quotes to the customer comprises: transmitting the price quotes to an intermediary using an intermediary subsystem; transmitting the price quotes to the customer using a customer subsystem.

- 15. The process of claim 1 further comprising notifying the target set of sellers that an RFQ has been transmitted to them.
- 16. The process of claim 1 further comprising storing each RFQ in an RFQ database.
- 17. The process of claim 16 further comprising tracking the status of each RFQ.
- 18. The process of claim 1 further comprising:

inputting a set of customer information; and storing the set of customer information in a customer database.

- 19. The process of claim 17 further comprising tracking customer information to obtain marketing information.
- 20. A computer network apparatus to facilitate the purchase of a product having multiple configurations, the product being sold by manufacturer-licensed sellers and each product configuration being described by a set of product attributes, comprising:

a server comprising:

a processor,

a storage device connected to the processor,

a product database stored on the storage device, the product database including information regarding existing combinations of product attributes,

a seller database stored on the storage device, the seller database including seller information such as geographic location,

a program stored on the storage device for controlling the processor, the program being operative with the processor to

receive a customer's selected set of product attributes,

query the product database using the customer's desired set of product attributes to confirm the feasibility of the customer's selected configuration,

query the seller database using a set of seller attributes to select a target set of sellers in the customer's geographic area,

transmit a request for quote (RFQ) to the target set of sellers, the RFQ including the customer's desired set of product attributes,

receive a quote from at least one seller from the target set of sellers,

receive an acceptance of one of the quotes, and

transmit the acceptance to the seller whose quote was accepted;

an intermediary subsystem connected to the server, the intermediary subsystem comprising a computer operative with a program stored thereon to:

receive from an intermediary input of a customer's selected set of product attributes,

transmit to the server the customer's selected set of product attributes,

receive from the server a quote from a seller,

receive from the intermediary input of an acceptance of a quote, and

transmit to the server an acceptance of one of the quotes; and

a seller subsystem connected to the server, the seller subsystem comprising a computer operative with a program stored thereon to:

receive from the server an RFQ; receive from a seller input of a quote in response to the RFQ, and transmit the quote to the server.

21. The apparatus of claim 20 further comprising a customer subsystem, the customer subsystem comprising a computer operative with a program stored thereon to:

receive from a customer input of the customer's selected set of product attributes; and

transmit the selected set of product attributes to the server.

- 22. The apparatus of claim 21 wherein the intermediary subsystem is further operative with the program stored thereon to receive from the server a customer's desired set of configuration attributes.
- 23. The apparatus of claim 20 wherein the intermediary subsystem comprises a computer having a program and a second product database stored thereon, the program being operative with the computer to

receive input of a customer's selected set of product attributes;

query the second product database using the customer's desired set of product attributes to confirm the feasibility of the customer's selected configuration, and

transmit to the server the customer's desired set of product attributes.

24. The apparatus of claim 20 further comprising an RFQ database stored on the server's storage device, the program stored on the server's storage device being further operative with the processor to:

store RFQ's processed by the apparatus in the RFQ database, and track the status of each RFQ in the database.

25. The apparatus of claim 20 further comprising a customer database stored on the storage device, the program being further operative with the processor to:

store customer information in the customer database, and update the customer information when new customer information is received.

- 26. The apparatus of claim 25 wherein the customer information is stored on the customer database in lists, each list being an intermediary's customer list.
- 27. The apparatus of claim 25 wherein the program is further operative with the processor to track customer information.
- 28. The apparatus of claim 20 wherein the program stored on the storage device of the server is further operative to store a list of target sellers as a preferred seller list.
- 29. A computer network apparatus to facilitate the purchase of a product having multiple configurations, the product being sold by manufacturer-licensed sellers and each product configuration being described by a set of product attributes, comprising:

a server comprising:

a processor,

a storage device connected to the processor,

a product database stored on the storage device, the product database including information regarding existing combinations of product attributes,

a seller database stored on the storage device, the seller database including seller information such as geographic location,

a program stored on the storage device for controlling the processor, the program being operative with the processor to

receive a customer's selected set of product attributes,

query the product database using the customer's desired set of product attributes to confirm the feasibility of the customer's selected configuration,

query the seller database using a set of seller attributes to select a target set of sellers in the customer's geographic area,

transmit a request for quote (RFQ) to the target set of sellers, the RFQ including the customer's desired set of product attributes,

receive a quote from at least one seller from the target set of sellers,

receive an acceptance of one of the quotes, and

transmit the acceptance to the seller whose quote was accepted;

a customer subsystem, the customer subsystem comprising a computer operative with a program stored thereon to:

receive from a customer input of the customer's selected set of product attributes,

transmit to the server the customer's selected set of product attributes,

receive from the server a quote from a seller,
receive from the customer input of an acceptance of a quote, and
transmit to the server an acceptance of one of the quotes; and

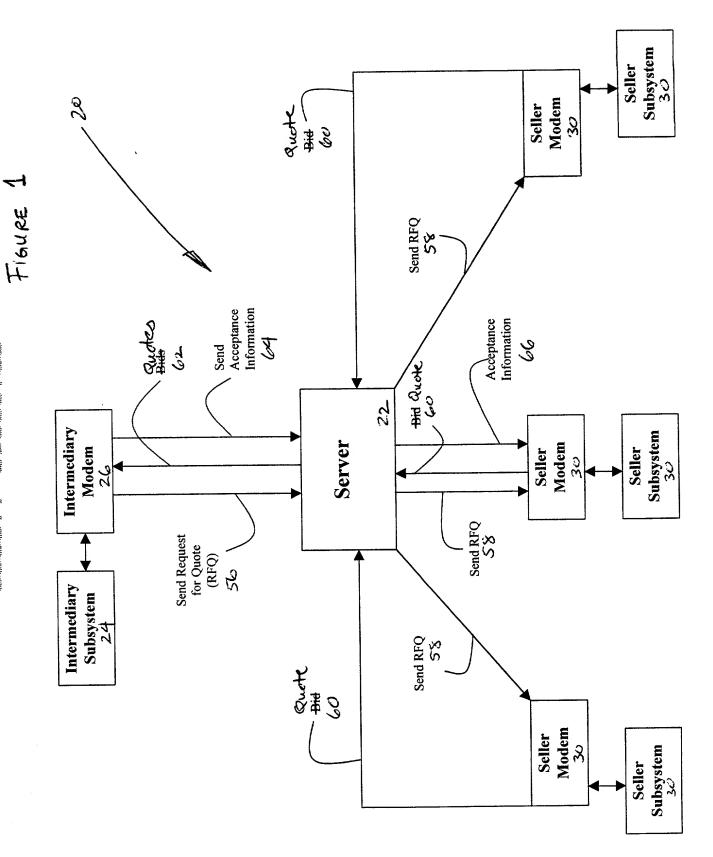
a seller subsystem, the seller subsystem comprising a computer operative with a program stored thereon to:

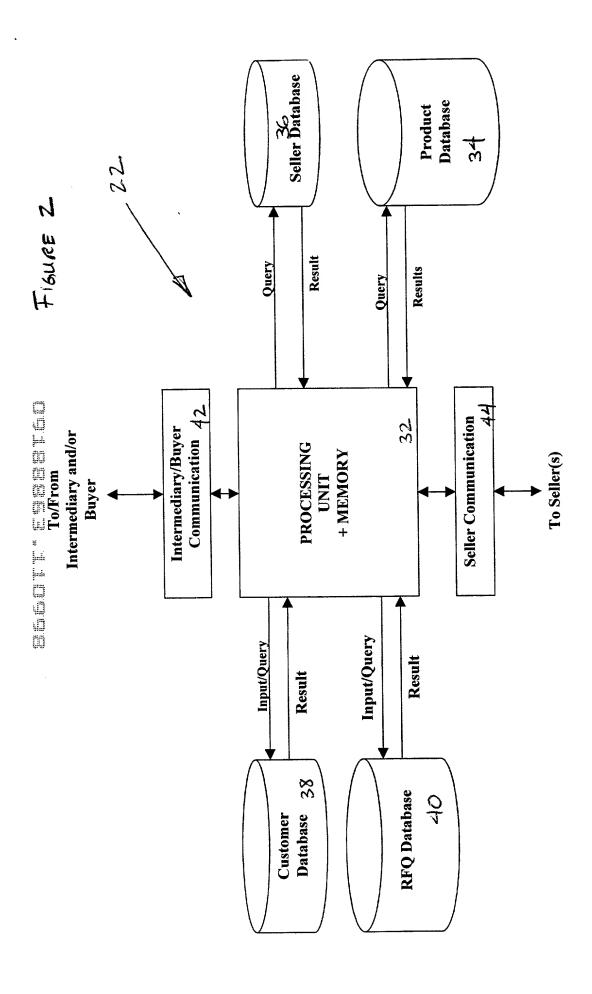
display the contents of an RFQ to a seller, receive from a seller input of a quote in response to the RFQ, and transmit the quote to the server.

# ABSTRACT OF THE DISCLOSURE

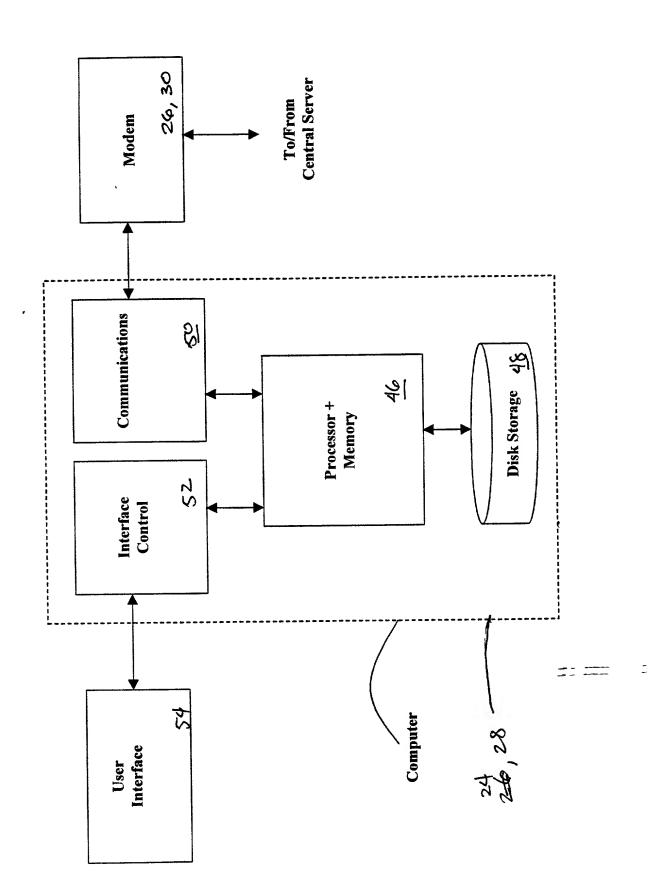
The present invention comprises an apparatus and process for facilitating customer-driven sales of products having multiple configurations. The apparatus is a computer network comprising a server with a product database thereon, an intermediary subsystem, and a seller subsystem. The server, intermediary subsystem, and seller subsystem function together and communicate with each other to allow an intermediary, on behalf of a customer, to configure a feasible product, transmit a request for quote (RFQ) to a target set of sellers in the customer's geographic area, receive quotes from the target sellers in response to the RFQ, and transmit the customer's acceptance of one of the quotes to the appropriate seller. The apparatus may also include a customer subsystem by which the customer may configure their own feasible product and transmit their feasible product information to the intermediary. The intermediary subsystem can optionally include a product database thereon which the intermediary can use to configure a feasible product without communicating with the server. The process allows an intermediary to configure a feasible product, transmit a request for quote (RFQ) to a target set of sellers in the customer's geographic area, receive quotes from the target sellers in response to the RFQ, and transmit the customer's acceptance of one of the quotes to the appropriate seller.

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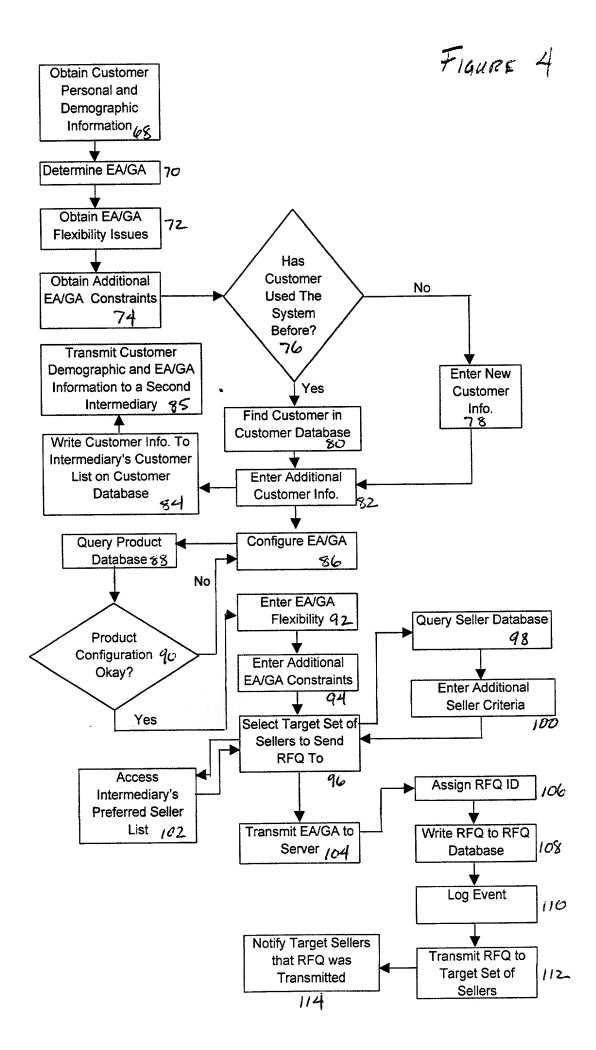




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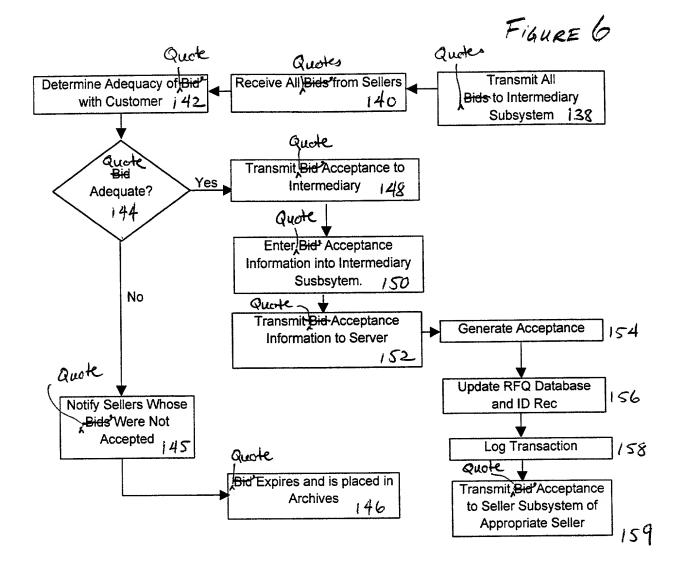
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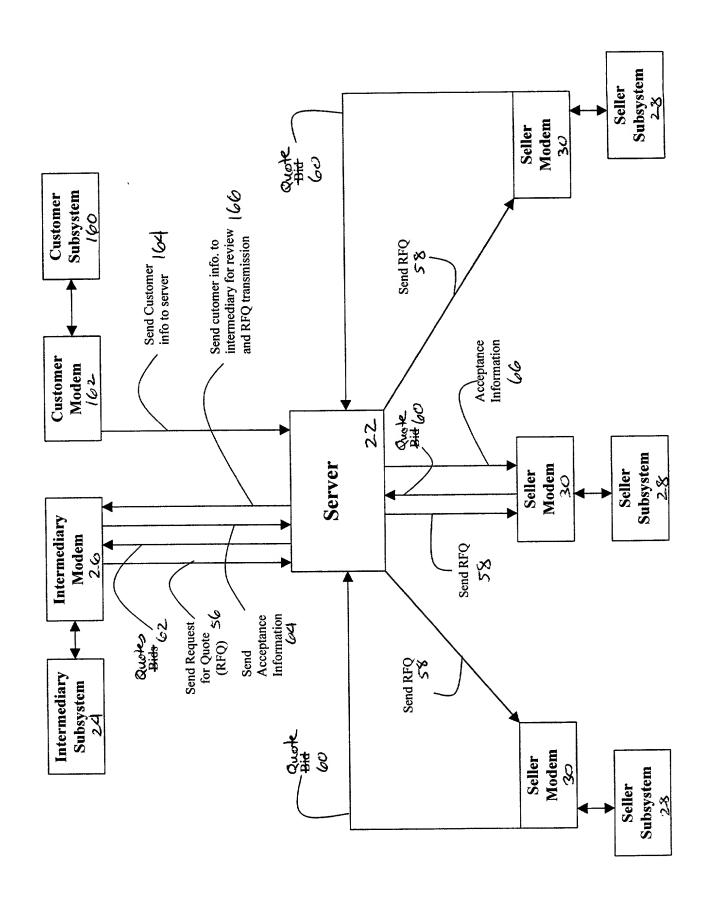


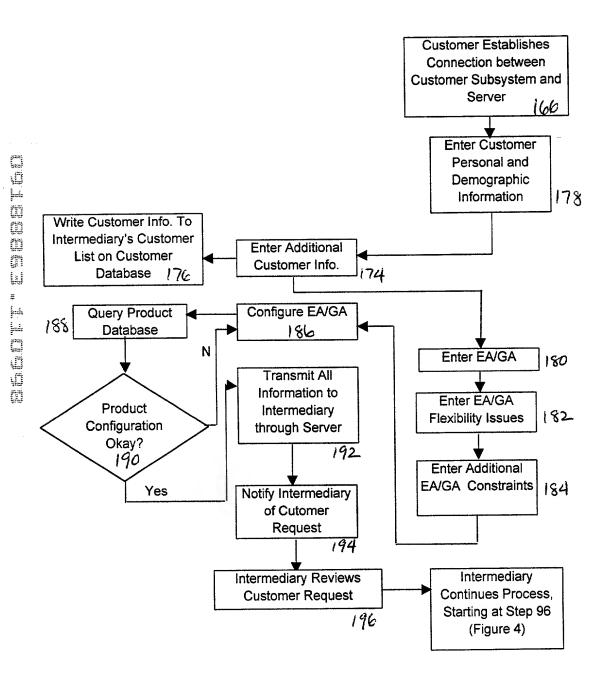
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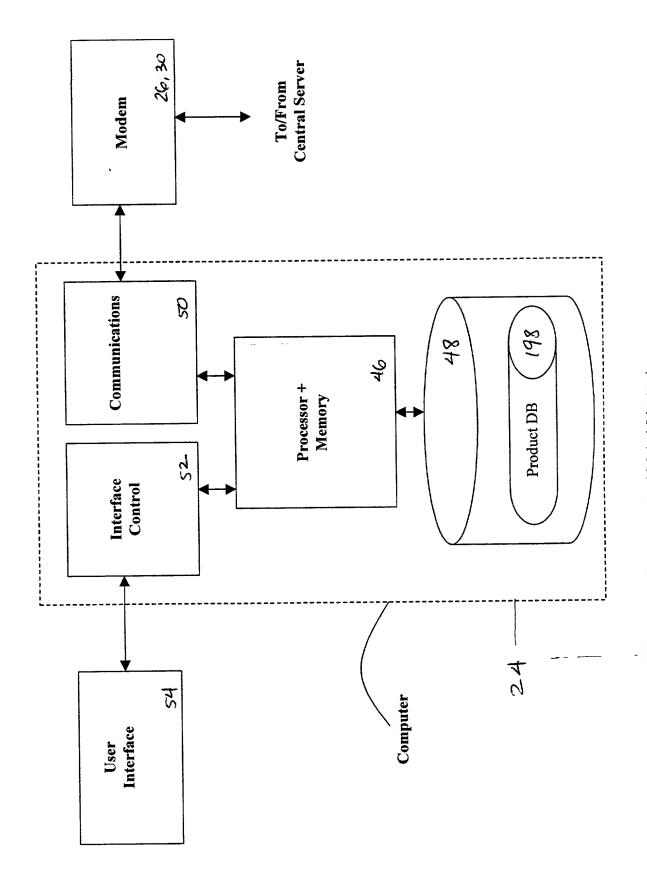
Transmit Bid to
Intermediary Subsystem

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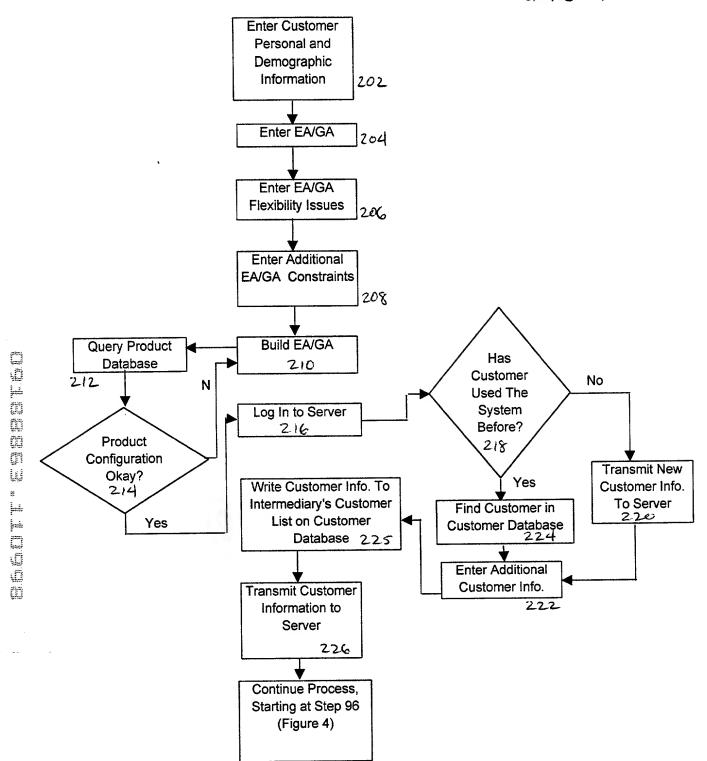


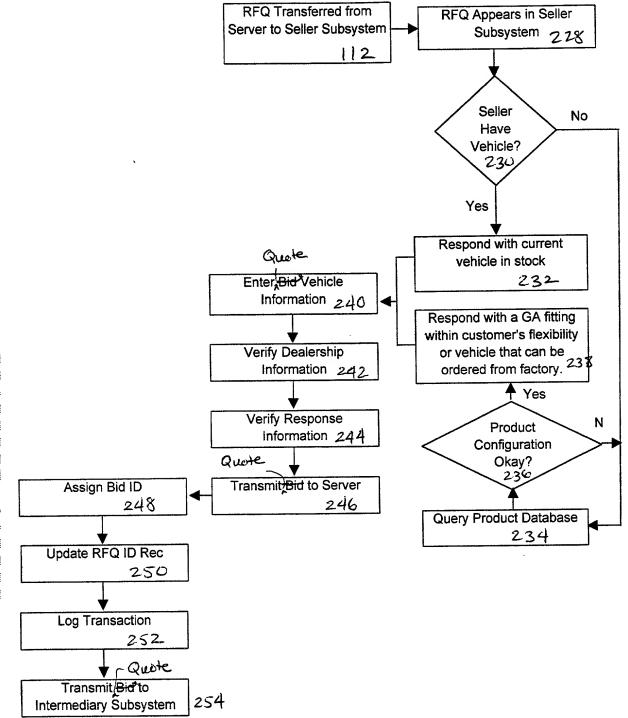




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FIGURE 10





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